Performance Data Sheet

TPA1410YXC

General Information

Model	TPA1410YXC	**Refrigerant**	R-134a
Test Condition	ASHRAE	**Performance Test Voltage**	240V ~ 50HZ
Return Gas	32.2°C (90°F) RETURN GAS	**Motor Type**	PTCS_CR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	520	445	399	372	353	333	299
	Watts	109	110	110	111	111	109	107
	Amps	0.44	0.50	0.54	0.55	0.55	0.54	0.54
	Lb/h	6.46	5.52	4.95	4.61	4.38	4.12	3.70
-35	Btu/h	594	519	472	445	426	405	371
	Watts	115	116	117	118	119	118	116
	Amps	0.46	0.53	0.57	0.58	0.58	0.58	0.58
	Lb/h	7.39	6.44	5.86	5.52	5.28	5.02	4.59
-30	Btu/h	677	601	554	527	507	486	452
	Watts	121	123	125	127	128	128	127
	Amps	0.49	0.56	0.60	0.62	0.62	0.62	0.62
	Lb/h	8.41	7.46	6.88	6.54	6.30	6.03	5.61
-25	Btu/h	768	692	645	618	599	577	543
	Watts	128	131	133	136	138	139	138
	Amps	0.52	0.59	0.64	0.66	0.66	0.66	0.67
	Lb/h	9.55	8.60	8.02	7.67	7.44	7.17	6.75
-20	Btu/h	869	793	747	719	701	680	646
	Watts	135	138	142	146	149	151	151
	Amps	0.54	0.62	0.67	0.70	0.71	0.71	0.72
	Lb/h	10.8	9.87	9.29	8.95	8.71	8.45	8.03
-15	Btu/h	981	905	859	832	814	794	761
	Watts	142	146	151	156	160	163	165
	Amps	0.57	0.65	0.71	0.74	0.76	0.76	0.78
	Lb/h	12.2	11.3	10.7	10.4	10.1	9.88	9.47
-10	Btu/h	1100	1030	983	957	940	920	888
	Watts	148	154	160	166	172	176	179
	Amps	0.59	0.68	0.75	0.78	0.81	0.82	0.84
	Lb/h	13.8	12.8	12.3	11.9	11.7	11.5	11.1
-5	Btu/h	1240	1160	1120	1090	1080	1060	1030
	Watts	154	161	169	176	183	189	193
	Amps	0.61	0.71	0.78	0.83	0.86	0.88	0.90
	Lb/h	15.5	14.5	14.0	13.7	13.5	13.2	12.8

0	Btu/h	1390	1310	1270	1250	1230	1210	1180
	Watts	160	168	177	186	194	202	208
	Amps	0.62	0.74	0.82	0.87	0.91	0.94	0.97
	Lb/h	17.3	16.4	15.9	15.6	15.4	15.2	14.8
5	Btu/h	1550	1480	1430	1410	1400	1380	1350
	Watts	164	174	184	195	205	214	222
	Amps	0.64	0.76	0.85	0.91	0.96	1.00	1.04
	Lb/h	19.4	18.5	18.0	17.7	17.5	17.3	17.0
10	Btu/h	1720	1650	1610	1590	1580	1570	1540
	Watts	167	178	191	203	215	226	236
	Amps	0.64	0.78	0.88	0.95	1.01	1.06	1.11
	Lb/h	21.6	20.8	20.3	20.0	19.8	19.7	19.3

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.305225E+03	1.620298E+02	-2.585282E+00	5.383045E+01
C2	2.923753E+01	-1.421357E+00	-1.624458E-02	3.706393E-01
C3	-7.510623E+01	-1.366109E+00	7.624132E-02	-9.391033E-01
C4	2.365780E-01	-4.226606E-02	-2.336272E-04	3.161897E-03
C5	1.735045E-02	2.792468E-02	2.731022E-04	2.388384E-04
C6	6.233211E-01	2.280400E-02	-5.695932E-04	7.795290E-03
C7	1.057996E-03	-3.040283E-04	-8.295433E-07	1.511678E-05
C8	4.614997E-04	2.752860E-04	1.949966E-06	5.643056E-06
C9	4.117162E-05	1.938978E-05	-4.288785E-07	3.798120E-07
C10	-1.757967E-03	-7.651981E-05	1.473521E-06	-2.198944E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature